

03500.009574.5



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:)
SOICHIRO KAWAKAMI ET AL.)
Appln. No.: 09/879,227)
Filed: June 13, 2001)
For: HIGH ENERGY DENSITY SECONDARY)
BATTERY FOR REPEATED USE)
U.S. Patent No.: 7,081,320 B2)
Issued: July 25, 2006)
Examiner: Stephen J. Kalafut
Art Unit: 1745
December 11, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

12/13/2006 HMARZ12 00000100 7081320

01 FC:1811

100.00 OP

CERTIFICATE OF CORRECTION
UNDER RULES 322 AND 323

Certificate
DEC 15 2006
of Correction

Sir:

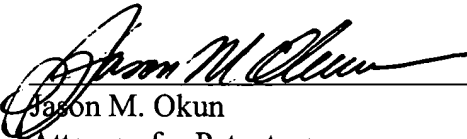
It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of Correction form, in duplicate, is enclosed.

Accompanying this letter is a check for \$100.00 to cover the statutory fee for such Certificate of Correction.

DEC 18 2006

Patentees' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,


Jason M. Okun
Attorney for Patentees
Registration No. 48,512

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

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CERTIFICATE OF CORRECTION

PATENT NO. : 7,081,320 B2

DATED : July 25, 2006

INVENTOR(S) : SOICHIRO KAWAKAMI ET AL.

Page 1 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON COVER PAGE AT (56) OTHER PUBLICATIONS

After "Chem. Abstracts, vol. 118": "0433a," should read --9423c,--;

After "Chem. Abstracts vol. 107": "non" should read --no--;

After "Database WPI, Section Ch, Week 8706,": "AN" should read --Class E32 AN--;
and

After "Database WPI, Section Ch, Week 8202,": "AN" should read --Class L03, AN--.

ON COVER PAGE AT (56) FOREIGN PATENT DOCUMENTS

"59157973 A" should read --59-157973 A--.

COLUMN 1

Line 33, "equipments" should read --equipment,--; and

Line 41, "However" should read --However,--.

COLUMN 2

Line 9, "worst," should read --worst case,--.

COLUMN 3

Line 20, close up right margin;

Line 21, close up left margin; and

Line 67, "cross sectional" should read --cross-sectional--.

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COLUMN 7

Line 25, "is" should read --are--.

COLUMN 9

Line 11, "Dr" should read --or--;

Line 15, "ranges" should read --range--; and

Line 16, "ranges" should read --range--.

COLUMN 10

Line 35, "manner," should read --manner that,--;

Line 39, "ranges" should read --range--;

Line 40, "ranges" should read --range--; and

Line 65, "the" (first occurrence) should read --in the--.

COLUMN 11

Line 4, "alt" should read --salt--;

Line 51, "ranges" should read --range--;

Line 57, "film. 4." should read --film.--; and

Line 59, "Fluororesin" should read --4. Fluororesin--.

COLUMN 12

Line 7, "Life" should read --life--; and

Line 60, "is" (second occurrence) should read --be--.

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COLUMN 13

Line 8, "ranges" should read --range--; and

Line 9, "ranges" should read --range--.

COLUMN 14

Line 23, "croup" should read --group--; and

Line 36, "SnCl4." should read --SnCl₄--.

COLUMN 15

Line 42, "is" should read --be--;

Line 62, "ranges" should read --range--; and

Line 63, "ranges" should read --range--.

COLUMN 16

Line 1, "film. 6." should read --film.--;

Line 2, "Polymer" should read --¶ 6. Polymer--; and

Line 26, "300 °C" should read --300 °C--.

COLUMN 17

Line 2, "ranges" should read --range--;

Line 3, "ranges" should read --range--;

Line 30, "like," should read --like.--;

Line 45, "polymerizes" should read --polymerized--; and

Line 60, "ranges" should read --range--.

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COLUMN 18

Line 13, "containing" should read --contain--;

Line 18, "inc," should read --zinc--; and

Line 64, "LiMn_{2-x}MxO₄" should read --LiMn_{2-x}M_xO₄--.

COLUMN 19

Line 48, "ole" should read --pole--; and

Line 49, "o" should read --to--.

COLUMN 20

Line 25, "is" should read --be--.

COLUMN 22

Line 18, "are" should read --be--.

COLUMN 23

Line 18, "as" should read --so as--; and

Line 57, "ranges" should read --range--.

COLUMN 25

Line 20, "sometime" should read --sometimes--; and

Line 50, "as" (second occurrence) should read --is--.

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COLUMN 26

Line 10, "pressed" should read --be pressed--.

COLUMN 28

Line 8, "change" should read --changed--;

Line 20, "car" should read --can--;

Line 50, "to be" should be deleted; and

Line 59, "ii" should read --in--.

COLUMN 29

Line 25, "De" should read --be--; and

Line 39, "ore" should read --one--.

COLUMN 30

Line 9, "is" (second occurrence) should read --be--;

Line 22, "as" should read --so as--; and

Line 39, "ar" should read --an--.

COLUMN 31

Line 5, "hole" should read --holes--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 32

Line 17, "be" should read --to be--;
Line 20, "croup" should read --group--; and
Line 63, "is" (both occurrences) should read --be--.

COLUMN 33

Line 17, "ranges" should read --range--; and
Line 18, "ranges" should read --range--.

COLUMN 34

Line 19, "manner," should read --manner, that--.

COLUMN 35

Line 10, "is" (second occurrence) should read --be--;
Line 27, "ranges" should read --range--; and
Line 38, "ranges" should read --range--.

COLUMN 36

Line 13, "2, 6-di-p-cresol," should read --2,6-di-p-cresol,--;
Line 41, "ranges" should read --range--; and
Line 42, "ranges" should read --range--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 38

Line 47, "cat" should read --can--.

COLUMN 39

Line 14, "if" should read --of--.

COLUMN 40

Line 45, "react-ion" should read --reaction--.

COLUMN 41

Line 9, "is" should read --be--;

Line 10, "is" should read --be--;

Line 32, "Ni(OC₄H₅)₂," should read --Ni(OC₄H₉)₂--;

Line 34, "Fe(OC₄H)₂, Cu(OC₂H₅)₂," should read --Fe(OC₄H₉)₂, Cu(OC₂H₅)₂--;

Line 35, "VO(OC₂H₃)₃," should read --VO(OCH₃)₃--;

Line 36, "VO(OC₄H₇O₂)₃" should read --VO(OC₄H₉)₃--; and

Line 60, "is" should read --be --.

COLUMN 42

Line 29, "at" should be deleted.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 44

Line 30, "beans" should read --beams--;
Line 37, "o I" should read --of--;
Line 40, "ranges" should read --range--;
Line 64, "proxy.bis" should read --proxy·bis--; and
Line 65, "dihydroxy•bis" should read --dihydroxy·bis--.

COLUMN 46

Line 30, "is" (second occurrence) should read --be--;
Line 43, "is" (second occurrence) should read --be--;
Line 44, "is" should read --be--; and
Line 60, "cross- sectional" should read --cross-sectional--.

COLUMN 47

Line 11, "so" should read --so as--.

COLUMN 50

Line 12, "was" should read --were--;
Line 13, "pause" should read --paused--; and
Table 1, "Secondary Battery Manufactured" should read --Manufactured Secondary Battery--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 51

Line 7, "Activating" should read --activating--;
Line 38, "following" should read --followed--; and
Line 63, "out it." should read --it out.--.

COLUMN 52

Line 16, "Applied" should read --applied--.

COLUMN 53

Table 2, "Example 2-" should read --Example 2-1--;
Line 55, "Example 31" should read --Example 3-1--;
Line 61, "Example 31" should read --Example 3-1--; and
Line 65, "Example 31." should read --Example 3-1.--.

COLUMN 54

Line 2, "wad" should read --was--;
Line 22, "rayed" should read --raised--; and
Line 67, close right margin.

COLUMN 55

Line 1, close left margin;
Line 11, "Of Each" should read --of each--; and
Line 54, "as" should read --so as--.

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Page 10 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 56

Line 8, "are" should read --as--; and

Line 48, "Example 41" should read --Example 4-1--.

COLUMN 58

Line 50, "were" should read --was--.

COLUMN 60

Line 12, "as" (first occurrence) should read --so as--; and

Line 25, "as" should read --so as--.

COLUMN 61

Table 5, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--.

COLUMN 62

Table 5 cont., "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--;

Line 39, "to" (first occurrence) should read --it against--; and

Line 62, "as" should read --so as--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 63

Line 42, "mixed" should read --mixture--; and

Line 53, "was," should read --was--.

COLUMN 64

Line 11, "Hj-101M6" should read --HJ-101M6--;

Line 57, "At" should read --at--;

Line 58, "is a" should read --are--; and

Line 59, "paint" should read --paints--; and "Yushi" should read --Yushi--.

COLUMN 65

Line 38, "it" should read --the mixture--.

COLUMN 67

Line 29, "far" should read --for--; and

Table 7, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--.

COLUMN 70

Table 8, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--;
and

Line 67, "as" should read --so as--.

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COLUMN 73

Line 18, "as" should read --so as--.

COLUMN 74

Line 39, "to" should be deleted; and
Line 51, "and" should be deleted.

COLUMN 77

Line 28, "at 800°" should read --at 800° C.--;
Line 36, "glutamicacid" should read --glutamic acid--; and
Line 57, "above" should read --above--.

COLUMN 80

Table 10, "Secondary Battery Manufactured" should read --Manufactured Secondary Battery--; and
Line 27, "that" should read --so that--.

COLUMN 81

Line 54, "3×10-3 Torr," should read --3×10⁻³ Torr,--.

COLUMN 82

Line 14, "as" should read --so as--; and
Line 48, "pause" should read --paused--.

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COLUMN 83

Table 11, "Secondary Manufactured Battery" should read --Manufactured Secondary Battery--; and
Line 28, "wets" should read --was--.

COLUMN 84

Line 1, "remove" should read --removed--.

COLUMN 85

Line 40, "Obtain-" should read --obtain--.

COLUMN 87

Line 19, close up right margin; and
Line 20, close up left margin".

COLUMN 88

Line 7, "O f" should read --of--; and
Line 31, "are a" should read --area--.

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COLUMN 94

Table 12, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--.

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COLUMN 1

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Line 41, "However" should read --However,--.

COLUMN 2

Line 9, "worst," should read --worst case,--.

COLUMN 3

Line 20, close up right margin;

Line 21, close up left margin; and

Line 67, "cross sectional" should read --cross-sectional--.

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COLUMN 9

Line 11, "Dr" should read --or--;

Line 15, "ranges" should read --range--; and

Line 16, "ranges" should read --range--.

COLUMN 10

Line 35, "manner," should read --manner that,--;

Line 39, "ranges" should read --range--;

Line 40, "ranges" should read --range--; and

Line 65, "the" (first occurrence) should read --in the--.

COLUMN 11

Line 4, "alt" should read --salt--;

Line 51, "ranges" should read --range--;

Line 57, "film. 4." should read --film.--; and

Line 59, "Fluororesin" should read --4. Fluororesin--.

COLUMN 12

Line 7, "Life" should read --life--; and

Line 60, "is" (second occurrence) should read --be--.

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INVENTOR(S) : SOICHIRO KAWAKAMI ET AL.

Page 3 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 13

Line 8, "ranges" should read --range--; and

Line 9, "ranges" should read --range--.

COLUMN 14

Line 23, "croup" should read --group--; and

Line 36, "SnCl4." should read --SnCl₄---

COLUMN 15

Line 42, "is" should read --be--;

Line 62, "ranges" should read --range--; and

Line 63, "ranges" should read --range--.

COLUMN 16

Line 1, "film. 6." should read --film.--;

Line 2, "Polymer" should read --¶ 6. Polymer--; and

Line 26, "300 °C" should read --300 °C--.

COLUMN 17

Line 2, "ranges" should read --range--;

Line 3, "ranges" should read --range--;

Line 30, "like," should read --like.--;

Line 45, "polymerizes" should read --polymerized--; and

Line 60, "ranges" should read --range--.

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Page 4 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 18

Line 13, "containing" should read --contain--;

Line 18, "inc," should read --zinc,--; and

Line 64, "LiMn_{2-x} MxO₄" should read --LiMn_{2-x}M_xO₄--.

COLUMN 19

Line 48, "ole" should read --pole--; and

Line 49, "o" should read --to--.

COLUMN 20

Line 25, "is" should read --be--.

COLUMN 22

Line 18, "are" should read --be--.

COLUMN 23

Line 18, "as" should read --so as--; and

Line 57, "ranges" should read --range--.

COLUMN 25

Line 20, "sometime" should read --sometimes--; and

Line 50, "as" (second occurrence) should read --is--.

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Page 5 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 26

Line 10, "pressed" should read --be pressed--.

COLUMN 28

Line 8, "change" should read --changed--;

Line 20, "car" should read --can--;

Line 50, "to be" should be deleted; and

Line 59, "ii" should read --in--.

COLUMN 29

Line 25, "De" should read --be--; and

Line 39, "ore" should read --one--.

COLUMN 30

Line 9, "is" (second occurrence) should read --be--;

Line 22, "as" should read --so as--; and

Line 39, "ar" should read --an--.

COLUMN 31

Line 5, "hole" should read --holes--.

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Page 6 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 32

Line 17, "be" should read --to be--;

Line 20, "croup" should read --group--; and

Line 63, "is" (both occurrences) should read --be--.

COLUMN 33

Line 17, "ranges" should read --range--; and

Line 18, "ranges" should read --range--.

COLUMN 34

Line 19, "manner," should read --manner, that--.

COLUMN 35

Line 10, "is" (second occurrence) should read --be--;

Line 27, "ranges" should read --range--; and

Line 38, "ranges" should read --range--.

COLUMN 36

Line 13, "2, 6-di-p-cresol," should read --2,6-di-p-cresol,--;

Line 41, "ranges" should read --range--; and

Line 42, "ranges" should read --range--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 38

Line 47, "cat" should read --can--.

COLUMN 39

Line 14, "if" should read --of--.

COLUMN 40

Line 45, "react-ion" should read --reaction--.

COLUMN 41

Line 9, "is" should read --be--;

Line 10, "is" should read --be--;

Line 32, "Ni(OC₄H₉)₂," should read --Ni(OC₄H₉)₂--;

Line 34, "Fe(OC₄H₉)₂, Cu(OC₂H₅)₂," should read --Fe(OC₄H₉)₂, Cu(OC₂H₅)₂--;

Line 35, "VO(OC₂H₃)₃," should read --VO(OCH₃)₃--;

Line 36, "VO(OC₄H₇O₂)₃" should read --VO(OC₄H₉)₃--; and

Line 60, "is" should read --be --.

COLUMN 42

Line 29, "at" should be deleted.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 44

Line 30, "beans" should read --beams--;
Line 37, "o I" should read --of--;
Line 40, "ranges" should read --range--;
Line 64, "proxy.bis" should read --proxy·bis--; and
Line 65, "dihydroxy•bis" should read --dihydroxy·bis--.

COLUMN 46

Line 30, "is" (second occurrence) should read --be--;
Line 43, "is" (second occurrence) should read --be--;
Line 44, "is" should read --be--; and
Line 60, "cross- sectional" should read --cross-sectional--.

COLUMN 47

Line 11, "so" should read --so as--.

COLUMN 50

Line 12, "was" should read --were--;
Line 13, "pause" should read --paused--; and
Table 1, "Secondary Battery Manufactured" should read --Manufactured Secondary Battery--.

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Page 9 of 14

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 51

Line 7, "Activating" should read --activating--;
Line 38, "following" should read --followed--; and
Line 63, "out it." should read --it out.--.

COLUMN 52

Line 16, "Applied" should read --applied--.

COLUMN 53

Table 2, "Example 2-" should read --Example 2-1--;
Line 55, "Example 31" should read --Example 3-1--;
Line 61, "Example 31" should read --Example 3-1--; and
Line 65, "Example 31." should read --Example 3-1.--.

COLUMN 54

Line 2, "wad" should read --was--;
Line 22, "rayed" should read --raised--; and
Line 67, close right margin.

COLUMN 55

Line 1, close left margin;
Line 11, "Of Each" should read --of each--; and
Line 54, "as" should read --so as--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 56

Line 8, "are" should read --as--; and

Line 48, "Example 41" should read --Example 4-1--.

COLUMN 58

Line 50, "were" should read --was--.

COLUMN 60

Line 12, "as" (first occurrence) should read --so as--; and

Line 25, "as" should read --so as--.

COLUMN 61

Table 5, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--.

COLUMN 62

Table 5 cont., "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--;

Line 39, "to" (first occurrence) should read --it against--; and

Line 62, "as" should read --so as--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 63

Line 42, "mixed" should read --mixture--; and

Line 53, "was," should read --was--.

COLUMN 64

Line 11, "Hj-101M6" should read --HJ-101M6--;

Line 57, "At" should read --at--;

Line 58, "is a" should read --are--; and

Line 59, "paint" should read --paints--; and "Yushi" should read --Yushi,--.

COLUMN 65

Line 38, "it" should read --the mixture--.

COLUMN 67

Line 29, "far" should read --for--; and

Table 7, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--.

COLUMN 70

Table 8, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--;
and

Line 67, "as" should read --so as--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 73

Line 18, "as" should read --so as--.

COLUMN 74

Line 39, "to" should be deleted; and
Line 51, "and" should be deleted.

COLUMN 77

Line 28, "at 800°" should read --at 800° C.--;
Line 36, "glutamicacid" should read --glutamic acid--; and
Line 57, "above" should read --above--.

COLUMN 80

Table 10, "Secondary Battery Manufactured" should read --Manufactured Secondary Battery--; and
Line 27, "that" should read --so that--.

COLUMN 81

Line 54, " 3×10^{-3} Torr," should read -- 3×10^{-3} Torr,--.

COLUMN 82

Line 14, "as" should read --so as--; and
Line 48, "pause" should read --paused--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 83

Table 11, "Secondary Manufactured Battery" should read --Manufactured Secondary Battery--; and
Line 28, "wets" should read --was--.

COLUMN 84

Line 1, "remove" should read --removed--.

COLUMN 85

Line 40, "Obtain-" should read --obtain--.

COLUMN 87

Line 19, close up right margin; and
Line 20, close up left margin".

COLUMN 88

Line 7, "O f" should read --of--; and
Line 31, "are a" should read --area--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 94

Table 12, "Lithium Battery Manufactured" should read --Manufactured Lithium Battery--.

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